

**Identification:** Information plate in national language on cross member in front of radiator or on cylinder head cover. Adjust engines according to data of respective exhaust gas information plate.

**Testing and adjusting values**

**Idle speed adjustment**

National version	Idle speed 1/min	Idle speed emission value % CO
up to 1976	800–900	max. 1.5
(J) 1976		max. 1.0 <b>without air injection</b>
(s) 1976	750–900	up to 1.5
(USA) 1973		6–8 <b>without air injection</b>
(USA) 1974 Federal	700–900	6–8 <b>without air injection</b>
(USA) 1974 California		max. 1.0 <b>without air injection</b>
(USA) 1975/76	800–900	

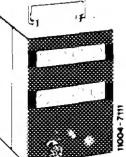
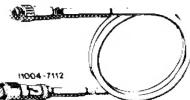
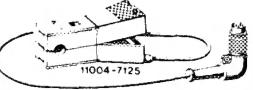
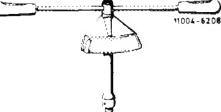
**Vacuum governor<sup>1)</sup>**

National version	Engine speed Vacuum hose pulled off 1/min		Engine speed Driving position engaged 1/min
	without TN choke	with TN choke	
(J) 1976	—	1700–1900	600–700
(s) 1976	—		
(USA) 1973/74	1200–1400		
(USA) 1975/76	—		

<sup>1)</sup> When engaging all auxiliary units, the engine should still run smoothly.

<b>Tightening torques</b>		<b>Nm</b>	<b>(kpm)</b>
Carburetor fastening nuts	with new insulating flange	10	(1.0)
	with insulating flange used up to now	8	(0.8)

#### **Special tools**

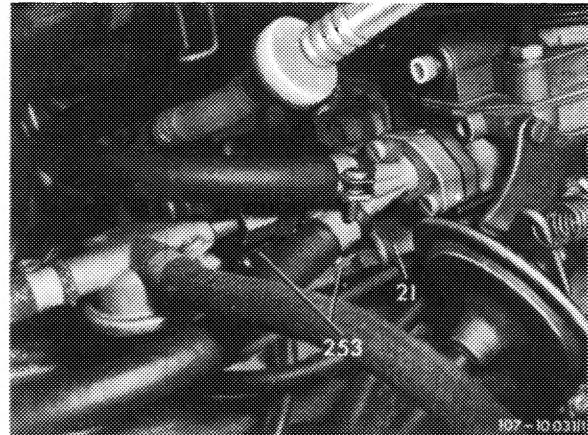
	<b>Oil telethermometer</b>	116 589 27 21 00
	<b>Digital tester</b>	001 589 54 21 00
	<b>Connecting cable 6 m long</b>	000 589 04 90 00
	<b>Intermediate plug (adaptor)</b>	000 589 72 63 00
	<b>Trigger</b>	000 589 71 63 00
	<b>Torque wrench 4–16 Nm (40–160 kpcm)</b>	000 589 67 21 00

#### **Conventional tools**

Revolution counter, CO measuring instrument

## Removal

- 1 Remove air filter.
- 2 Evacuate excess pressure in cooling system by loosening radiator cap for a short moment, then tighten cap again.
- 3 Unscrew fuel return valve. Pull off electric cable on choke cover, plug on idle speed shutoff valves, vacuum lines and coolant hoses. Disconnect regulating rod on carburetor.
- 4 Unscrew carburetor fastening nuts and remove carburetor.



## Installation

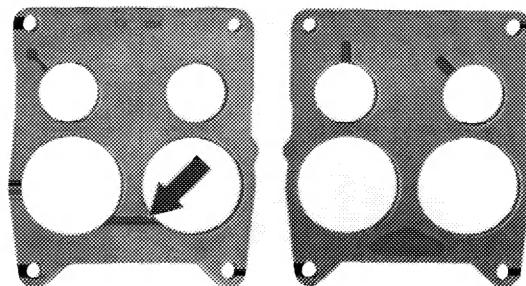
- 5 Install carburetor in vice versa sequence. Proceed as follows:

- Check insulating flange for damage and replace, if required.
- Pay attention to installation position and various insulating flange versions.

 1973/74

 California 1974

Arrow = groove for drawing off fuel evaporation vapors, should point toward carburetor.



107-8716

 1976

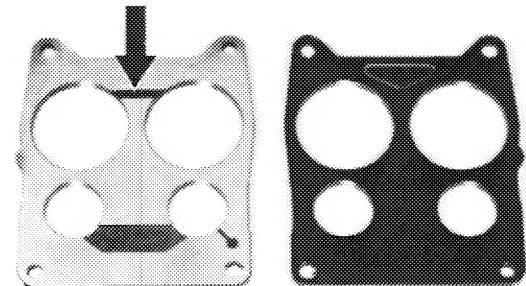
 1976

 1975/76

Arrow = groove for drawing off fuel and crankcase evaporation vapors, should point toward carburetor.

### Attention!

This insulating flange should no longer be installed for model years 1973/74.

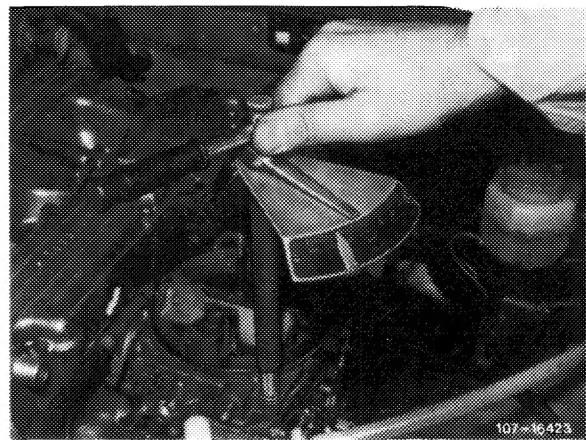


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- Tighten carburetor fastening nuts uniformly and crosswise to specified torque.

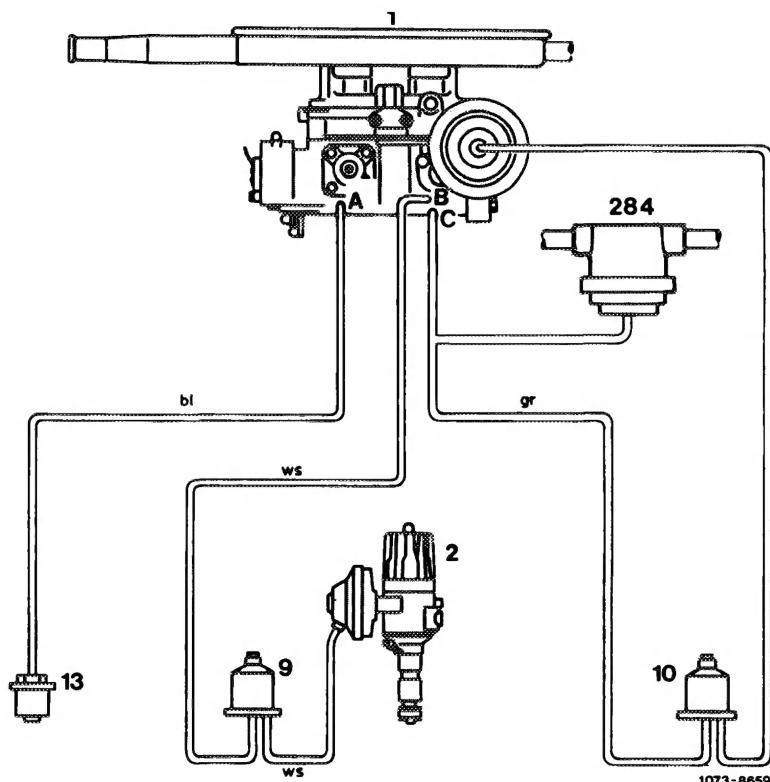
**Attention!**

To prevent distortion of carburetor, tighten with a torque wrench only and up to specified torque.



- Attach vacuum lines on carburetor according to diagram.

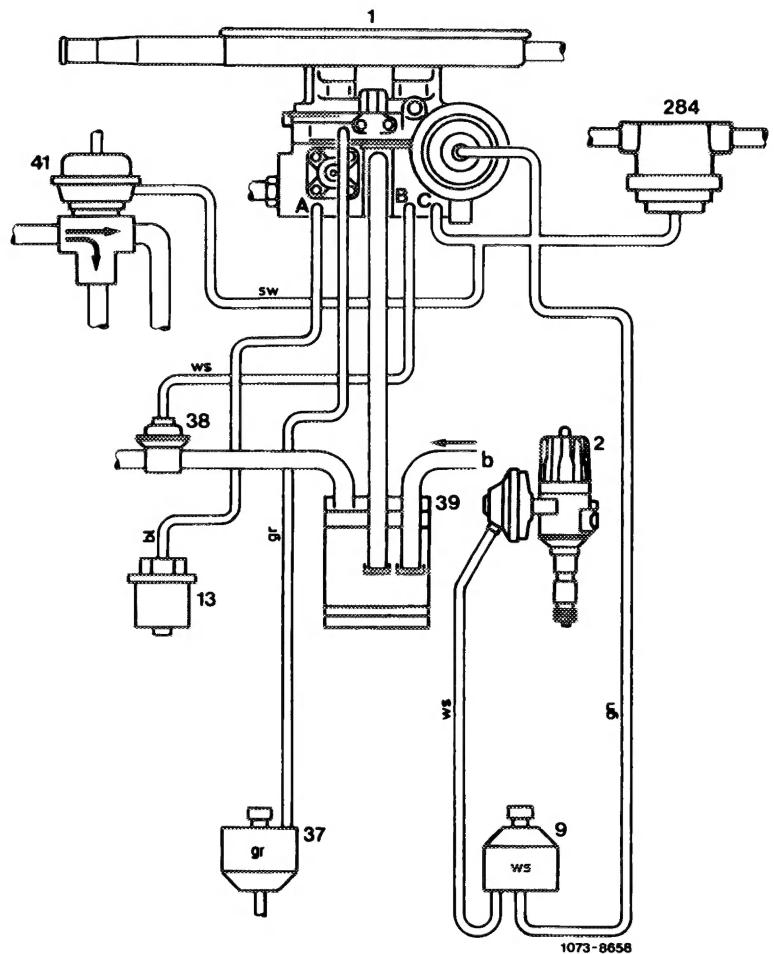
(USA) 1973/74 Federal



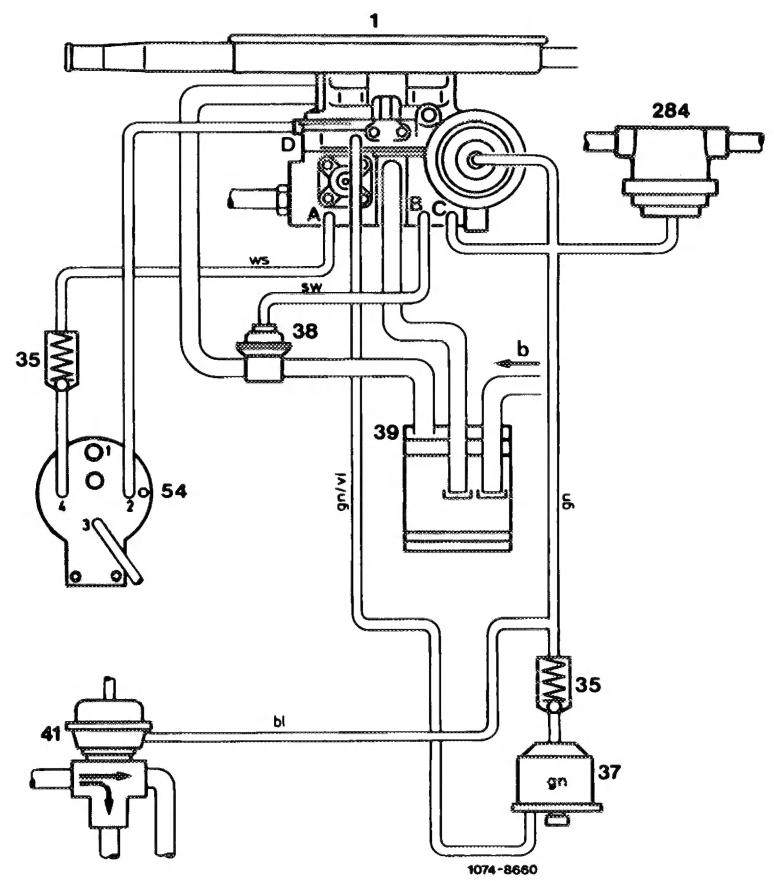
A Vacuum connection for vacuum switch (13) of ignition retard  
 B Vacuum connection for switchover valve (9) of ignition retard  
 C Vacuum connection for switchover valve (10) of throttle valve lift by vacuum governor, as well as for fuel return valve (284)

Line colors

gr = grey  
 bl = blue  
 ws = white



USA 1975/76, J 1976



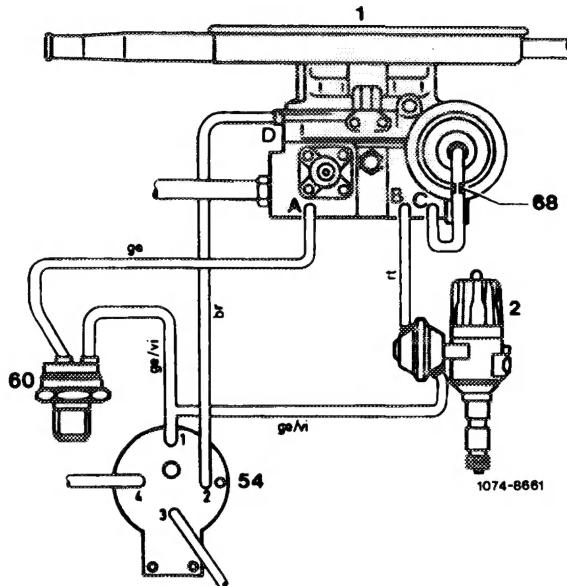
A Vacuum connection check valve (35) of vacuum booster for EGR  
 B Vacuum connection for draw-off valve (38) of fuel evaporation control system  
 C Vacuum connection for check valve (35) of float chamber vent system, vacuum governor and fuel return valve (284)

Line colors  
 bl = blue  
 br = brown  
 gn = green  
 sw = black  
 vi = purple  
 ws = white

- A Vacuum connection 40 °C thermostatic valve (60) of EGR
- B Vacuum connection for ignition advance
- C Vacuum connection for vacuum governor
- D Vacuum connection for vacuum booster (54) of EGR

Line colors

br = brown  
ge = yellow  
rt = red  
vi = purple



6 Adjust idle speed (07.2–100).